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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F01N5/02 F02G5/02

F01N3/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F01N F02G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15, 6 April 2001 (2001-04-06) & JP 2000 352313 A (NISSAN MOTOR CO LTD), 19 December 2000 (2000-12-19)	1,8-10
Y	paragraph '0037! – paragraph '0071!; figure 12	2-5,7
Y	FR 2 698 909 A (RENAULT) 10 June 1994 (1994-06-10) page 6, line 5 -page 11, line 10; figure 1	2-5
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular retevance  'E' earlier document but published on or after the international filling date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filling date but later than the priority date claimed	<ul> <li>"T" later document published after the International filing date or priorily date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  22 April 2004	Date of mailing of the international search report 03/05/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Nobre, S



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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04, 31 August 2000 (2000-08-31) & JP 2000 018095 A (NISSAN MOTOR CO LTD), 18 January 2000 (2000-01-18) paragraph '0009! - paragraph '0082!; figures 9,11-13,15,17		7
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 338 (M-1628), 27 June 1994 (1994-06-27) & JP 06 081639 A (MITSUBISHI MOTORS CORP),	·	1
Α	22 March 1994 (1994-03-22) paragraph '0012! - paragraph '0020!; figure 5		2,3,7, 11,12

## INTERNATIONAL SEARCH REPORT

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JP 2000352313	Α	19-12-2000	NONE		<u>. L </u>
FR 2698909	Α	10-06-1994	FR	2698909 A1	10-06-1994
JP 2000018095	Α	18-01-2000	NONE		
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